

Optical Properties and Band Structure of Semiconductors

David L. Greenaway
Gunther Harbeke

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Optical Properties And Band Structure Of Semiconductors Volume 1

I. M. Tsidilkovski



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Optical Properties and Band Structure of Semiconductors David L. Greenaway, Günther Harbeke, 2015-12-04 Optical Properties and Band Structure of Semiconductors Volume 1 presents the experimental studies of the fundamental energy band structure of semiconductors and insulators This book provides detailed information of the available measurement methods and results for a large number of both cubic and non cubic materials Comprised of 10 chapters this volume begins with an overview of the fundamental band structure of semiconductors This text then discusses the instrumentation and methods available for the measurement of absorption coefficient absolute reflection coefficient and other optical properties of insulators and semiconductors primarily in their fundamental region Other chapters consider the interband transitions in the one electron approximation The final chapter deals with the equivalence of the transverse and longitudinal dielectric constants in the frequency range under consideration This book is a valuable resource for solid state physicists Readers and researchers with interest in the electron and optical properties of semiconductors and insulators will also find this book useful *Electronic Structure and Optical Properties of Semiconductors* Marvin L. Cohen, James R. Chelikowsky, 2012-12-06

Band Structure of Semiconductors I. M. Tsidilkovski, 2016-10-19 Band Structure of Semiconductors provides a review of the theoretical and experimental methods of investigating band structure and an analysis of the results of the developments in this field The book presents the problems methods and applications in the study of band structure Topics on the computational methods of band structure band structures of important semiconducting materials behavior of an electron in a perturbed periodic field effective masses and g factors for the most commonly encountered band structures and the treatment of cyclotron resonance Shubnikov de Haas oscillations magnetophonon resonance and magneto optical phenomena are discussed Experimental physicists theoretical physicists students and research workers and engineers working in the field of semiconductor electronics will find this book a great source of vital information **CRC Handbook of Chemistry and Physics, 96th Edition** William M. Haynes, 2015-06-09 Proudly serving the scientific community for over a century this 96th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference mirroring the growth and direction of science This venerable work continues to be the most accessed and respected scientific reference in the world An authoritative resource consisting of tables of data and current international recommendations on nomenclature symbols and units its usefulness spans not only the physical sciences but also related areas of biology geology and environmental science The 96th edition of the Handbook includes 18 new or updated tables along with other updates and expansions A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition This series is continued with this edition which is focused on Lord Kelvin Michael Faraday John Dalton and Robert Boyle This series which provides biographical information a list of major achievements and notable quotations attributed to each of the renowned chemists and physicists will be continued in succeeding editions Each edition will feature two chemists

and two physicists The 96th edition now includes a complimentary eBook with purchase of the print version This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach New Tables Section 1 Basic Constants Units and Conversion Factors Descriptive Terms for Solubility Section 8 Analytical Chemistry Stationary Phases for Porous Layer Open Tubular Columns Coolants for Cryotrapping Instability of HPLC Solvents Chlorine Bromine Combination Isotope Intensities Section 16 Health and Safety Information Materials Compatible with and Resistant to 72 Percent Perchloric Acid Relative Dose Ranges from Ionizing Radiation Updated and Expanded Tables Section 6 Fluid Properties Sublimation Pressure of Solids Vapor Pressure of Fluids at Temperatures Below 300 K Section 7 Biochemistry Structure and Functions of Some Common Drugs Section 9 Molecular Structure and Spectroscopy Bond Dissociation Energies Section 11 Nuclear and Particle Physics Summary Tables of Particle Properties Table of the Isotopes Section 14 Geophysics Astronomy and Acoustics Major World Earthquakes Atmospheric Concentration of Carbon Dioxide 1958 2014 Global Temperature Trend 1880 2014 Section 15 Practical Laboratory Data Dependence of Boiling Point on Pressure Section 16 Health and Safety Information Threshold Limits for Airborne Contaminants

Semiconductor Science and Technology, Vol.1 V. Stefan, Nikolai Gennadievich Basov, 2002

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CRC Handbook of Chemistry and Physics David R. Lide, 1995-03-09 This student edition features over 50 new or completely revised tables most of which are in the areas of fluid properties and properties of solids The book also features extensive references to other compilations and databases that contain additional information

Semiconductors and Semimetals, 1970-07-31 Semiconductors and Semimetals Band Structure Engineering in Semiconductor Microstructures R.A. Abram, M. Jaros, 2012-12-06 This volume contains the proceedings of the NATO

Advanced Research Workshop on Band Structure Engineering in Semiconductor Microstructures held at Il Ciocco Castelveccchio Pascali in Tuscany between 10th and 15th April 1988 Research on semiconductor microstructures has expanded rapidly in recent years as a result of developments in the semiconductor growth and device fabrication technologies The emergence of new semiconductor structures has facilitated a number of approaches to producing systems with certain features in their electronic structure which can lead to useful or interesting properties The interest in band structure engineering has stimulated a variety of physical investigations and novel device concepts and the field now exhibits a fascinating interplay between pure physics and device technology Devices based on microstructures are useful vehicles for fundamental studies but also new device ideas require a thorough understanding of the basic physics Around forty researchers gathered at Il Ciocco in the Spring of 1988 to discuss band structure engineering in semiconductor microstructures

Physics of Photonic Devices Shun Lien Chuang, 2012-11-07 The most up to date book available on the physics of photonic devices This new edition of Physics of Photonic Devices incorporates significant advancements in the field of photonics that have occurred since publication of the first edition Physics of Optoelectronic Devices New topics covered include a brief history of the invention of semiconductor lasers the Lorentz dipole method and metal plasmas matrix optics surface plasma waveguides optical ring resonators integrated electroabsorption modulator lasers and solar cells It also introduces exciting new fields of research such as surface plasmonics and micro ring resonators the theory of optical gain and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers quantum cascade lasers and GaN blue green lasers within the context of advanced semiconductor lasers Physics of Photonic Devices Second Edition presents novel information that is not yet available in book form elsewhere Many problem sets have been updated the answers to which are available in an all new Solutions Manual for instructors Comprehensive timely and practical Physics of Photonic Devices is an invaluable textbook for advanced undergraduate and graduate courses in photonics and an indispensable tool for researchers working in this rapidly growing field

Semiconductors and Semimetals Jacques I. Pankove, 1984-10-11 *Semiconductor Physics* Karlheinz Seeger, 2013-06-29 The first edition of Semiconductor Physics was published in 1973 by Springer Verlag Wien New York as a paperback in the Springer Study Edition In 1977 a Russian translation by Professor Yu K Pozhela and coworkers at Vilnius USSR was published by Izdatelstvo MIR Moscow Since then new ideas have been developed in the field of semiconductors such as electron hole droplets dangling bond saturation in amorphous silicon by hydrogen or the determination of the fine structure constant from surface quantization in inversion layers New techniques such as molecular beam epitaxy which has made the realization of the Esaki superlattice possible deep level transient spectroscopy and refined Hall techniques have evolved Now that the Viennese edition is about to go out of print Springer Verlag Berlin Heidelberg New York is giving me the opportunity to include these new subjects in a monograph to appear in the Solid State Sciences

series Again it has been the intention to cover the field of semiconductor physics comprehensively although some chapters such as diffusion of hot carriers and their galvanomagnetic phenomena as well as super conducting degenerate semiconductors and the appendices had to go for commercial reasons The emphasis is more on physics than on device aspects

ERDA Research Abstracts United States. Energy Research and Development Administration,1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977 **Semiconductor Optics 1** Heinz Kalt,Claus F. Klingshirn,2019-09-20 This revised and updated edition of the well received book by C Klingshirn provides an introduction to and an overview of all aspects of semiconductor optics from IR to visible and UV It has been split into two volumes and rearranged to offer a clearer structure of the course content Inserts on important experimental techniques as well as sections on topical research have been added to support research oriented teaching and learning Volume 1 provides an introduction to the linear optical properties of semiconductors The mathematical treatment has been kept as elementary as possible to allow an intuitive approach to the understanding of results of semiconductor spectroscopy Building on the phenomenological model of the Lorentz oscillator the book describes the interaction of light with fundamental optical excitations in semiconductors phonons free carriers excitons It also offers a broad review of seminal research results augmented by concise descriptions of the relevant experimental techniques e g Fourier transform IR spectroscopy ellipsometry modulation spectroscopy and spatially resolved methods to name a few Further it picks up on hot topics in current research like quantum structures mono layer semiconductors or Perovskites The experimental aspects of semiconductor optics are complemented by an in depth discussion of group theory in solid state optics Covering subjects ranging from physics to materials science and optoelectronics this book provides a lively and comprehensive introduction to semiconductor optics With over 120 problems more than 480 figures abstracts to each chapter as well as boxed inserts and a detailed index it is intended for use in graduate courses in physics and neighboring sciences like material science and electrical engineering It is also a valuable reference resource for doctoral and advanced researchers **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center,1976 **Oxide Semiconductors** ,2013-05-18 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry Written and edited by internationally renowned experts Relevant to a wide readership physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry Hydrogen in Semiconductors Jacques I. Pankove,Noble M. Johnson,1991-04-23

Hydrogen plays an important role in silicon technology having a profound effect on a wide range of properties. Thus the study of hydrogen in semiconductors has received much attention from an interdisciplinary assortment of researchers. This sixteen chapter volume provides a comprehensive review of the field including a discussion of hydrogenation methods, the use of hydrogen to passivate defects, the use of hydrogen to neutralize deep levels, shallow acceptors and shallow donors in silicon, vibrational spectroscopy and hydrogen induced defects in silicon. In addition to this detailed coverage of hydrogen in silicon, chapters are provided that discuss hydrogen related phenomena in germanium and the neutralization of defects and dopants in III b1V semiconductors. Provides the most in depth coverage of hydrogen in silicon available in a single source. Includes an extensive chapter on the neutralization of defects in III b1V semiconductors. Combines both experimental and theoretical studies to form a comprehensive reference.

Defects in Semiconductors, 2015-06-08. This volume, number 91 in the Semiconductor and Semimetals series, focuses on defects in semiconductors. Defects in semiconductors help to explain several phenomena from diffusion to getter and to draw theories on materials behavior in response to electrical or mechanical fields. The volume includes chapters focusing specifically on electron and proton irradiation of silicon, point defects in zinc oxide and gallium nitride, ion implantation defects and shallow junctions in silicon and germanium and much more. It will help support students and scientists in their experimental and theoretical paths. Expert contributors. Reviews of the most important recent literature. Clear illustrations. A broad view including examination of defects in different semiconductors.

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